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30 JUL 1981

MEMORANDUM FOR: Chief, Real Estate and Construction Division,
FROM : [REDACTED] Project Director, Consolidated SAFE Project Office
SUBJECT : SAFE Power and Space Requirements for the Phase I and II Areas
REFERENCE : Memo from C/RE&CD/OL to PD/CSPO dated 3 June 1981, Subject - SAFE Power and Space Requirements for the Phase II Area

1. The referent requested that CSPO provide Real Estate and Construction Division/OL with SAFE Power and Space Redesign Requirements for Phase II prior to 30 June 1981. This is to advise you that Messrs. [REDACTED] Project Planning and Control/CSPO, met with Headquarters Engineering Branch (HEB) personnel during the week of 8-12 June 1981 to review:

- a. Phase I site locations for installation of 3-150 KVA Mobile Power Units.
- b. Phase II power redesign requirements to accommodate installation of 1-150 KVA MPU and 4-225 KVA MPUs.
- c. Phase II space redesign requirements.

2. Based on current estimates, which I feel are conservative, projected Phase I and II power and air conditioning loads are as follows:

- a. Phase I
450 KVA Electrical Power
112 Tons Air Conditioning
- b. Phase II
525 KVA Electrical Power
140 Tons Air Conditioning

Given that the Phase I electrical power load is conservative it will be necessary to install one additional 150 KVA MPU before completion of the Phase II construction. The final SAFE electrical power load cannot be estimated at this time. However, the Phase I

OL 1 3174

and II electrical distribution systems are designed to support 8-9 MPUs providing a total of 1,500 KVA. Since the total Phase I and II electrical power load is 975 KVA, 1,500 KVA will be sufficient to handle SAFE's near-term and future electrical power requirements.

The Phase I and II air conditioning requirements total 250 tons. At the completion of the Phase II construction 320 tons (16 air-handler units x 20 tons) will be available. The net difference of 70 tons will support near-term growth but will not support future growth. As of this date, I cannot estimate future air conditioning requirements. A reasonable estimate would be that 100 tons of additional air conditioning will be required to support SAFE's future growth. When realistic estimates become available, I will provide them to your office.

As you are aware, the 320 ton air conditioning design criteria was predicated on a generic hardware architecture. Based on the recent selection of the [redacted] to supply the SAFE Computer Systems new requirements have surfaced impacting the initial air conditioning load estimates.

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3. On 19 June 1981, HEB provided GSA with revised Phase II construction specifications and drawings.



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